

Curriculum Vita

PERSONAL DATA

Name: Zahra

Surname: Vojdani jahromi

Professor

Nationality: Iranian

Date of Birth: 1965

Marital status: Married with three children

Address: Department of Anatomy, Medical school, Shiraz University of Medical Sciences, Shiraz. Iran

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Education:

- B.ScPhsiotherapy, Tehran University of Medical Science, 1987
- Msc Anatomy, Tarbiat modarres University, 1990
- PhD Anatomical Sciences(Histology & Embryology), Mashhad University of Medical Sciences, 1997

Employment:

- **1990-1992**, instructor of anatomy and head of Anatomy Department of jahrom medial school
- **1996-2003**, assistant professor of anatomy and embryology and head of Anatomy Department of jahrom medial school
- **2002-2011**, assistant professor of Shiraz University of Medical Sciences
- **2011-2018**, associate professor of Shiraz University of Medical Sciences
- **2008- present** , Member of integration committee of Shiraz Medical School
- **2018**, Dean of Education of Medical School,
- Professor of Shiraz University of Medical Sciences
- Head of Anatomy Department, Shiraz University of Medical 2022- present Sciences,

Teaching Experience:

1. Anatomy of the **Head and Neck, Limbs, and Trunk** for Medical and Dentistry students”

2. **pelvis anatomy** for obstetrics and gynecology Residents
3. **Trunk and limb** anatomy for Residents of oral and maxillofacial surgery
4. **Surface Anatomy** for Residents of rehabilitation ,students of Physiotherapy and anatomy student(PhD)
5. **Functional Anatomy**” for Orthodontic Residents
6. **Anthropometry** for Orthodontic Residents
7. **Sectional Anatomy** for Radiology Residents
8. **Neuroanatomy** for students of Medicine, Dentistry, physiotherapy (BSc) and neurology(PhD), physiotherapy(PhD), anatomy (MSc)
9. Specific Anatomy for Midwifery, Physiotherapy and Radiology students”
10. Specific Anatomy for MSc student of Anatomical Sciences”
11. **“Head and Neck Anatomy** for ENT Residents”
12. **Embryology** for students of Medicine
13. **General Anatomy** for students of Radiology, Nursing, Operation Room, Midwifery, Pharmacology
14. **Respiratory system** for Medical student
15. **Cardiovascular system** for Medical student
16. **Clinical anatomy** for PhD student of Anatomical Sciences
17. **Anthrophology** for PhD student of Anatomical Sciences
18. **Surface anatomy** for PhD student of Anatomical Sciences and student of medicine
19. **Comparative anatomy** for PhD student of Anatomical Sciences

Research Activities:

- 1-Study of Effect of carthamus tinctorius, phoenix dactylifera on spermatogenesis and male reproductive system in rat.
- 2- Cephalometry of high school students in Shiraz
- 3- Stereological study of the morphine on the spleen, lymph node,
- 4- The in vitro study of the effects of soybean and *Elaeagnus Angustifolia* on chondrogenesis
- 5-Reprogramming of somatic cell in stem cell lab
- 6- Transdifferentiation of lymphocyte to Cardiomyocyte
- 7- Transdifferentiation of fibroblast to Cardiomyocyte
- 8- Effect of amniotic membrane on proliferation of umbilical cord blood
- 9-Differentiation of hepatocyte
- 10- Fabrication and characterization of decellularized ovary and testis

Publications:

1. Mehri Shadi, Tahereh Talaei-Khozani, Mahsa Sani, Radmarz Hosseinie, Hossein Parsaei, Zahra Vojdani .Optimizing artificial meniscus by mechanical stimulation of the chondrocyte-laden acellular meniscus using ad hoc bioreactor. *Stem Cell Research & Therapy* volume 13, 30 July 2022: 382 (2022)
2. Amin Gholijani 1, MSc; Saeid Tavanafar 2, DMD; Nehleh Zareifard 3, PhD; Zahra Vojdani 3, PhD; Mohammad Reza Namavar 4, PhD; Asrin Emami 1, PhD; Tahere Talaei-Khozani 3, PhD In Situ Casting of Platelet Rich Plasma/SiO₂/Alginate for Bone Tissue Engineering Application in Rabbit Mandible Defect Model *J Dent Shiraz Univ Med Sci*
3. A Yaghoubi, N Azarpira, S Karbalay-Doust, S Daneshi, Z Vojdani, Prednisolone and mesenchymal stem cell preloading protect liver cell migration and mitigate extracellular matrix modification in transplanted decellularized rat liver *Stem Cell Research & Therapy* 13 (1), 1-18
4. Ebrahim Rahmani-Moghadam ^{1,2}, Tahereh Talaei-Khozani ^{1,2}, Vahideh Zarrin ², **Zahra Vojdani** Thymoquinone loading into hydroxyapatite/alginate scaffolds accelerated the osteogenic differentiation of the mesenchymal stem cells. *Biomed Eng Online*. 2021 Aug 4;20(1):76. doi: 10.1186/s12938-021-00916-
5. Asrin Emami ¹, Tahereh Talaei-Khozani ¹, Saeid Tavanafar ², Nehleh Zareifard ¹, Negar Azarpira ³, **Zahra Vojdani** ⁴ Synergic effects of decellularized bone matrix, hydroxyapatite, and extracellular vesicles on repairing of the rabbit mandibular bone defect model. *J Transl Med*. 2020 Sep 22;18(1):361. doi: 10.1186/s12967-020-02525-3.
6. Shadravanan M, Latifi M, **Vojdani Z**, Talaei-Khozani T. Fabrication of Pentoxifylline-Loaded Hydroxyapatite/Alginate Scaffold for Bone Tissue Engineering. *Journal of Biomimetics, Biomaterials and Biomedical Engineering*.
7. Emami A, Talaei-Khozani T, **Vojdani Z**, Zarei Fard N. Comparative assessment of the efficiency of various decellularization agents for bone tissue engineering. *J Biomed Mater Res B Appl Biomater*. 2020 Jul 5. doi: 10.1002/jbm.b.34677.
8. Talaei-Khozani T, Aleahmad F, Bazrafshan A, Aliabadi E, **Vojdani Z** .Lectin Profile Variation in Mesenchymal Stem Cells Derived from Different Sources. *Cells Tissues Organs*. 2019;208(3-4):101-112. doi: 10.1159/000505238.
9. Kargar E, **Vojdani Z**, Hassanpour A, Alaei S, Talaei-Khozani T. Charetrization, recellularization and transplantation of the rat testis Scaffold with bone marrow derived mesenchymal stem cells.. *Stem Cell Research & Therapy*. 2018 Nov 21;9(1):324. doi: 10.1186/s13287-018-1062-3.

10. Hassanpour A, Talaei-Khozani T, Kargar E, Razban V, **Vojdani Z**. Decellularized Human Ovarian Scaffold based on a Sodium Lauryl Ester Sulfate (SLES)-treated protocol, as a Natural Three-Dimensional Scaffold for Construction of Bioengineered Ovaries. *Stem Cell Research & Therapy*. 9(1):252.
11. **Vojdani Z**, Bagheri J, Talaei-Khozani T, Azarpira N, Salmannjad M, Farokhi A. Fetal microchimerism in mouse caerulein-induced pancreatitis model. *Iranian Journal of Basic Medical Sciences*, 2018,
12. Zahra Khodabandeh,^{1,2} **Zahra Vojdani**,¹ Tahereh Talaei-Khozani,^{1,3} and Soghra Bahmanpour¹. *Int J Stem Cells*. 2017 Nov; 10(2): 218–226. Hepatogenic Differentiation Capacity of Human Wharton's Jelly Mesenchymal Stem Cell in a Co-culturing System with Endothelial Cells in Matrigel/collagen Scaffold in the Presence of Fetal Liver Extract
13. Mahmoud Sadeghi-Ataabadi a, Zohreh Mostafavi-pour b, **Zahra Vojdani a**, Mahsa Sani a, Mona Latifi c,a, Tahereh Talaei-Khozani. Fabrication and characterization of platelet-rich plasma scaffolds for tissue engineering applications
14. Mafi A¹, Dehghani F², Moghadam A¹, Noorafshan A², **Vojdani Z**³, Talaei-Khozani Effects of platelet-rich plasma on liver regeneration in CCl₄-induced hepatotoxicity model. *Platelets*. 2016 Jun 2:1-6. [Epub ahead of print]
15. **Zahra Vojdani** 1, Ali Babaei 1, Attiyeh Vasaghi 1, Mojtaba Habibagahi 2, Tahereh Talaei-Khozani The effect of amniotic membrane extract on umbilical cord blood mesenchymal stem cell expansion: is there any need to save the amniotic membrane besides the umbilical cord blood?. *Ijbms*. 2016;89-96
16. Fakhroddin Mesbah^{1,2*}, Mohsen Moslem¹, **Zahra Vojdani**^{1,2} and Hossein Mirkhani^{3,4} Does metformin improve in vitro maturation and ultrastructure of oocytes retrieved from estradiol valerate polycystic ovary syndrome-induced rats. *Journal of Ovarian Research* (2015) 8:74
17. Khodabandeh Z, **Vojdani Z**, Talaei-Khozani T, Jaberipour M, Hosseine A, Esmaeilpour T. Comparison of the expression of hepatic markers by human Wharton's jelly mesenchymal stem cells cultured in 2D and 3D collagen culture systems. *IJMS*, 2016, *Iranian journal of medical sciences* 2016
18. **Vojdani Z**, Khodabandeh Z, Jaberipour M, Hossaini A, Bahmanpour S, Talaei-Khozani T. The influence of fibroblast growth factor 4 on hepatogenic capacity of Wharton's jelly mesenchymal stromal cells. *Rom J Morphl Embryol*. 2015; 56(3): 1043-1050.

19. Khodabandeh Z1, **Vojdani Z2**, Jaberipour M3, Hosseini A4, Bahmanpour S5, Talaei-Khozani T6 Improved Differentiation of Mesenchymal Stem Cells into Hepatocyte-like Cells using FGF4 and IGF-1 in 3D Culture. *Int J Stem Cell Res*;2015; 109-117. 109
20. Tahereh Talaei-Khozani1,2, Maryam Borhani-Haghighi1, Maryam Ayatollahi3, **Zahra Vojdani1**.An in vitro model for hepatocyte-like cell differentiation from Wharton's jelly derived-mesenchymal stem cells by cell-base aggregates. *Gastroenterol Hepatol Bed Bench* 2015;8(3):188-199
21. Maryam Borhani-Haghighi1, Tahereh Talaei-Khozani1, Maryam Ayatollahi,**Zahra Vojdani**.Wharton's Jelly-derived Mesenchymal Stem Cells can Differentiate into Hepatocyte-like Cells by HepG2 Cell Line Extract *IJMS* 2015;143-151
22. Zahra Khodabandeh, **Zahra Vojdani**, Tahereh Talaei-Khozani, Mansoore Jaberipour, Ahmad Hosseini, , Soghra Bahmanpour. Comparison of the Expression of Hepatic genes by Human Wharton Jelly Mesenchymal Stem cell cultured in 2D and 3D collagen culture system. *IJMS*;
۲۳. فرزانه دهقانی ، ملیحه الزمان منصفی ، طاهره طلائی خوزانی ، زهرا وجدانی
اثر الودگی صوتی بر روی کلیه جنین موش سوری (یک بررسی استریولوژیکی) دو ماهنامه طب جنوب.
ISMJ 2014; 17(4): 789-797
24. Tahereh Talaei-Khozani1,2 Fatemeh Heidari1; Tahereh Esmailpour; **Zahra Vojdani**, Zohrah Mostafavi-Pour3 Leili Rohani1, Cardiomyocyte Marker expression in Mouse Embryonic Fibroblasts by Cell-Free Cardiomyocyte Extract and Epigenetic Manipulation. *IJMS* 2014; 203-212
25. Tahereh Talaei-Khozani , **Zahra Vojdani**, Elham Aliabadi A Study of the Glycoconjugates Distribution of Umbilical Cord; a Lectin Histochemical Study *Journal of Infertility and Reproductive Biology*,: 7-11
26. **Zahra Vojdani1**, Zahra Khodabandeh , Tahereh Talaei-Khozani
In Vitro Study of the Protective Effects of Hydroalcoholic Extract of Soybean against Impact of Oxidative Damage on Osteogenesis and Chondrogenesis of Mouse Limb Bud. *Anatomical science* 2013;131-136
27. Soghra Bahmanpour, **Zahra Vojdani**, Mohamad Reza Panjehshahin1, Hassan Hoballah, Hamza Kassas. Effect of carthamus tinctorius on semen quality and gonadal hormone levels in partially sterile male rat. *Korean J Urol* 2012;53:705-710

28. Mohammad Reza Namavar, Samira Raminfard, **Zahra Vojdani Jahromi**, Hassan Azari .Effects of high-fat diet on the numerical density and number of neuronal cells and the volume of the mouse hypothalamus: a stereological study. *Anat Cell Biol* 2012;45:178-184
29. Talaei-Khozani T, Kharazinejad E, Rohani I, **Vojdani Z**, Mostafavi-pour Z, Tabei SZ, Exprssion of pluripotency markers in human granulose cells after embryonic stem cell extract exposure and epigenetic modification. *IJRM*, in press
30. Talaei-Khozani T, **Vojdani Z**, Dehghani F, Heidari E, Kharazinejad E, Panjehshahin MR. Effects of *Elaeagnus angustifolia* fruit extract on chondrogenesis and osteogenesis in mouse limb buds. *The Tokai j Exper Clin Med*. Sep, 2011, 6(3),63-68
31. **Vojdani Z**, Tavakolinejad S, Talaei-khozani T, Esmailpour T, Rasooli M. Cardiomyocyte marker expression in a human lymphocyte cell line by mouse cardiomyocyte extract. *Human cell*, 2011, 24:35-42
32. Monsefi G, Dehghani F, **Vojdani Z**. Noise exposure of pregnant mice induced heart defects in their fetuses. *Toxicological & Environmental Chemistry* Volume 93, Issue 4, First published on 25 February 2011 Pages 780 – 788
33. Dehghani F, Panjehshahin MR, **Vojdani Z**. Effect of hydroalcoholic extract of caraway on thyroid gland structure and hormones of thyroid gland in female rat. *IJVR*.2010
34. **Vojdani Z**, Dehghani F, Seyedi F, Noorafshan A, Baha-al-din Bagi .Quantitative study of the effects of morphine on the mouse spleen and inguinal lymph node. *Arch Iran Med*. 2010 Jul; 13(4):294-300.
35. **Vojdani Z**; Bahmanpour S ;Momeni S; Vasaghi A;yazdizadeh A;Karamifar A;Najafifar A;Setoodehmaram S;Mokhtar A.Cephalometry in 14-18 years old girls and boys of shiraz-Iran high school. *Int.J.Morphol*. 2009 .27(1):101-104
36. Talaei T, Monsefi G, **Vojdani Z** , Dehghani F. Histochemical study of the effects of noise on the cell surface and extracellular matrix glycoconjugates of the developing mouse cochlea *J .Appl. Anim.Res*.31(2007) :209-212
37. **Vojdani Z**, Talaei T, Dehghani F, Habibi A, Panjehshahin MR. The effect of hydroalcoholic soybean extract on embryonic ossification and growth in indeces in mouse. . *J Appl. Anim.Res*.31(2007) :117-120

38. Bahmanpour S, talaei T, **Vojdani Z**, panjehshahin MR, poostpasand A, Zareei S, Ghaemina M. effect of Phoenix Dactylifera pollen on sperm parameters and reproductive system of adult male rats. Iranian Journal of medical sciences. 2006, 31(4) 208-212
39. Jalali M, Fazel AR , **Vojdani Z**. Induction of experimental omphalocele, umbilical hernia and limb malformation by morphine administration on the mouse embryo. Iranian journal of basic medical sciences.1999, 2(4):179-187
40. Fazel AR , Jalali M, **Vojdani Z** Psychological and physical effects of narcotic drug in mouse embryo.1997.1.52101

۴۱. طلایی ، منصفی ، **وجدانی** ، دهقانی بررسی تغییرات گلیکوکانژوگه های ماتریکس خارج سلولی و سطح سلول در روند تکامل لیمبوس گوش داخلی در جنین موش صحرایی . مجله علمی دانشگاه علوم پزشکی اهواز، شماره ۳۳ شهریور ۱۳۸۶

۴۲. سید فخرالدین مصباح. محسن مسلم. زهرا **وجدانی**. سید حسین میرخانی سندرم تخمدان پرکیستی ناشی از تجویز استرادیول والریت در موش تجویز استرادیول والریت در موش صحرایی. ارمغان دانش شماره ۱۳۸۹ ۱۵

Participation in congresses:

1. The effect of fetal liver extract and 3D culture on hepatogenic capability of human whartons jelly mesenchymal stem cell co-culturing with endothelial cells. 7Th Asia Pacific international congress of anatomisis. Singapour 17-20 march 2016
2. A study of the carbohydrate distribution pattern in attached stem cells isolated from cord blood. 7Th Asia Pacific international congress of anatomisis. Singapour 17-20 march 2016
3. Morphometric study of the Effects of Elaeagnus Angustifolia fruits on chodrogenesis and osteogenesis in mouse embryo. 6th Asian pacific international cogross of anatomy. Indonesia- Surabaya 22-23 july 2011
4. Transdifferentiation of lymphocyte into cardiomyocytes. 16th Iranian congress of Fertility & sterility. Shiraz, 14-16 esfand 1388
5. Dedifferentiation of the granulose cells into induced pluripotential stem cells by embryonic stem cell extract. Tehran, 1-3 Mehr, 1388

6. Transdifferentiation of mouse embryonic fibroblasts into cardiomyocytes. 6th Royan international on stem cell biology and technology 2010 – Tehran
7. بررسی اثر عصاره هیپروالکلی سنجد بر میزان غضروف سازی و استخوان سازی در جوانه اندام موش 9th anatomical congress. 2010 -hamedan
8. Effect of metformin on in vitro maturation of rat oocyte following induced polycystic ovary syndrome. The 5Th Asian- Pacific International Congress of Anatomical Sciences 16-19 may 2008 Tehran – Iran
9. Stradiol valerate –induced polycystic ovary syndrome : An animal model study The 5Th Asian- Pacific International Congress of Anatomical Sciences 16-19 may 2008 Tehran – Iran
10. Morphometric study of the effect of Carthamus tinctorius on partial sterile male rat reproductive as experimental model. The 5Th Asian- Pacific International Congress of Anatomical Sciences 16-19 may 2008 Tehran – Iran
11. Cephalometry in 14-18 years old girls and boys of Shiraz-Iran high .The 5Th Asian- Pacific International Congress of Anatomical Sciences 16-19 may 2008 Tehran – Iran
12. The effect of hydroalcoholic soybean extract on embryonic ossification and growth in indeces in mouse. The European society of biomedical pharmacology.2004,Antalya-Turkey
13. Stereological study of the effect of morphine on lymph node .The Eurotox 2006 /6 CTDC Congress .Croatia , September 20-24 2006
14. Stereological study of the effect of morphine on the spleen. The Eurotox 2006 /6 CTDC Congress .Croatia , September 20-24 2006
15. Stereological study of the effect of sound pollution on the kidney of mouse fetus . The 7th Iranian congress of Anatomical Sciences 10-12 may 2006 .Kashan - Iran
16. Modification of the distribution of the glycoconjugates of developing mouse tubotympanic by noise exposure . The 4th Asian Pacific international congress of anatomists. 2005,Kusadasi-Turkey
17. Modification of the distribution of the glycoconjugates of developing mouse tubotympanium by noise exposure .The 4Th Asian –Pacific International Congress of Anatomists 7-10 september 2005 Turkey

18. Changes in glycoconjugates distribution in the middle ear after noise exposure. The 6th anatomical congress, 24, Shiraz Iran
19. The effect of Hydroalcoholic soybean extract on embryonic growth in indeces in mouse. 2nd international symposium on pediatric gastroenterology hepatology and nutrition. 2003.Riadh, Saudia Arabia
20. Teratogenic effect of morphine on development of mouse fetus
21. Effects of phoenix dactylifera pollen on sperm parameters and reproductive tissues in male rat, 17th geographical medical congress. 2004, Shiraz, Iran
22. A study of the effects of soybean extract on ossification index of mouse embryo. 6th anatomical congress, 24, Shiraz Iran
23. Cephalometry of medical students of jahrom medical school The 15TH International congress of Geographic Medicine ۱۳۸۱ ۱۸-۲۰ Shiraz-iran
24. ایجاد تجربی شکاف سقف دهان و سایر اختلالات تکاملی در اثر تزریق یک دوز مرفین . دومین کنگره آناتومی ایران ۱۶-۱۸ اسفند ۱۳۷۳
25. Craniometry in newborn, The 5th geographical medical congress. 1991, Shiraz.Iran.

Workshop:

- Cell culture. Namazi research center.2001
- Cloning (production of stem cell). Tarbiat moddaress.2001
- Evaluation of the sperm chromatin quality. Isfahan .2002
- Lecturer in workshop of Evaluation of the sperm and oocyte .Shiraz 2008
- Manager and Lecturer in workshop of female pelvis anatomy Shiraz 2007
- Medical Education Fellowship –Shiraz 2009
- Lecturer in workshop of isolation of MSC from bone marrow .Shiraz 2010
- Lecturer in workshop of isolation of MSC from Wharton jelly of umbilical cord. Shiraz 2011
- Lecturer in workshop of Stem cell and regeneration medicine. Shiraz 2012
- Teacher of surface anatomy workshop.Shiraz 2015,2016